

# ESSENTIAL REQUIREMENTS CHECKLIST - MEDICAL DEVICE DIRECTIVE 93/42/EEC

COMPANY:

PRODUCT:

Essential Requirement	A - N/A	Standards / References	Manufacturers Compliance / Notes / Explanation	Location
<p><b>1. GENERAL PRINCIPLES</b></p> <p>1. The device must be designed and manufactured in such a way that, when used under the conditions set for the purposes intended, they will not compromise the clinical condition or the safety of patients, or the safety and health of users or, where applicable, other persons, provided that any risks which may be encountered with their intended use constitute acceptable risks when weighed against the benefits to the patient and are compatible with a high level of protection of health and safety.</p> <p>This shall include:</p> <ul style="list-style-type: none"> <li>- selecting, as far as possible, the state of use, which due to the systematic features of the device and the environment in which the device is intended to be used, design for patient safety; and</li> <li>- consideration of the technical knowledge, experience, education and training and where applicable the medical and physical conditions of intended users (design for lay, professional, disabled or other users).</li> </ul>				
<p>2. The criteria adopted by the manufacturer for the design and construction of the device must conform to safety principles, taking account of the generally acknowledged state of the art.</p> <p>In selecting the most appropriate solutions, the manufacturer must apply the following principles to the following extent:</p> <ul style="list-style-type: none"> <li>- eliminate or reduce risks as far as possible inherently with design and construction;</li> <li>- where appropriate take adequate protective measures (including where it is necessary, to reduce or make the risks acceptable);</li> <li>- reduce some of the residual risks due to any shortcomings of the protective methods adopted.</li> </ul>				
<p>3. The device must achieve the performance intended by the manufacturer and be designed, manufactured and packaged in such a way that they are suitable for use in order of the functions intended to be used. CE marking specified by the manufacturer.</p>				
<p>4. The characteristics and performance intended to be achieved in accordance with 1, 2 and 3 must not be adversely affected in such a degree that the clinical condition and safety of the patients and, where applicable, of other persons are compromised during the lifetime of the device as followed by the manufacturer, where the device is subjected to the stresses which are likely to be encountered under conditions of use.</p>				
<p>5. The device must be designed, manufactured and packed in such a way that the characteristics and performance during their intended use will not be adversely affected during transport and storage taking account of the instructions and information provided by the manufacturer.</p>				
<p>6. Any foreseeable risks which may constitute an acceptable risk when weighed against the performance intended.</p>				
<p>7. Demonstration of conformity with the essential requirements must include a clinical evaluation in accordance with Annex 2.</p>				

Prepared by Anne Jury Associates

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Revised to include all amendments up to and including Directive 2007/47/EC

# Essential Requirements Checklist Medical Device

**Iom Communications,Tuba Yamac**

## **Essential Requirements Checklist Medical Device:**

**Reliable Design of Medical Devices** Richard C. Fries, 2005-11-21 As medical devices increase in complexity concerns about efficacy safety quality and longevity increase in stride Introduced nearly a decade ago *Reliable Design of Medical Devices* illuminated the path to increased reliability in the hands on design of advanced medical devices With fully updated coverage in its Second Edition this practical guide continues to be the benchmark for incorporating reliability engineering as a fundamental design philosophy The book begins by rigorously defining reliability differentiating it from quality and exploring various aspects of failure in detail It examines domestic and international regulations and standards in similar depth including updated information on the regulatory and standards organizations as well as a new chapter on quality system regulation The author builds on this background to explain product specification liability and intellectual property safety and risk management design testing human factors and manufacturing New topics include design of experiments CAD CAM industrial design material selection and biocompatibility system engineering rapid prototyping quick response manufacturing and maintainability as well as a new chapter on Six Sigma for design Supplying valuable insight based on years of successful experience *Reliable Design of Medical Devices* Second Edition leads the way to implementing an effective reliability assurance program and navigating the regulatory minefield with confidence **Handbook of Medical Device**

**Design** Richard C. Fries, 2019-08-15 First published in 2001 This handbook has been written to give those professionals working in the development and use of medical devices practical knowledge about biomedical technology regulations and their relationship to quality health care *Medical Device Quality Assurance and Regulatory Compliance* Richard C.

Fries, 1998-08-11 Acquaints developers of medical devices with the basic concepts and major issues of medical quality assurance and regulatory documents describes the requirements listed in these documents and provides strategies for compliance with these requirements **Design of Biomedical Devices and Systems Second edition** Paul H.

King, Richard C. Fries, 2008-08-22 The design and functional complexity of medical devices and systems has increased during the past half century evolving from the level of cardiac pacemakers to magnetic resonance imaging devices Such life saving advancements are monumentally advantageous but with so much at stake a step by step manual for biomedical engineers is essential This *Design of Biomedical Devices and Systems, Third Edition* Paul H. King, Richard C. Fries, Arthur T.

Johnson, 2014-07-29 Apply a Wide Variety of Design Processes to a Wide Category of Design Problems *Design of Biomedical Devices and Systems Third Edition* continues to provide a real world approach to the design of biomedical engineering devices and or systems Bringing together information on the design and initiation of design projects from several sources this edition strongly emphasizes and further clarifies the standards of design procedure Following the best practices for conducting and completing a design project it outlines the various steps in the design process in a basic flexible and logical order What's New in the Third Edition This latest edition contains a new chapter on biological engineering design a new

chapter on the FDA regulations for items other than devices such as drugs new end of chapter problems new case studies and a chapter on product development It adds mathematical modeling tools and provides new information on FDA regulations and standards as well as clinical trials and sterilization methods Familiarizes the reader with medical devices and their design regulation and use Considers safety aspects of the devices Contains an enhanced pedagogy Provides an overview of basic design issues

**Design of Biomedical Devices and Systems Third Edition** covers the design of biomedical engineering devices and or systems and is designed to support bioengineering and biomedical engineering students and novice engineers entering the medical device market

**Design of Biomedical Devices and Systems, 4th edition** Paul H. King, Richard C. Fries, Arthur T. Johnson, 2018-10-03 This fourth edition is a substantial revision of a highly regarded text intended for senior design capstone courses within departments of biomedical engineering bioengineering biological engineering and medical engineering worldwide Each chapter has been thoroughly updated and revised to reflect the latest developments New material has been added on entrepreneurship bioengineering design clinical trials and CRISPR Based upon feedback from prior users and reviews additional and new examples and applications such as 3D printing have been added to the text Additional clinical applications were added to enhance the overall relevance of the material presented Relevant FDA regulations and how they impact the designer s work have been updated Features Provides updated material as needed to each chapter Incorporates new examples and applications within each chapter Discusses new material related to entrepreneurship clinical trials and CRISPR Relates critical new information pertaining to FDA regulations Presents new material on discovery of projects worth pursuing and design for health care for low resource environments Presents multiple case examples of entrepreneurship in this field Addresses multiple safety and ethical concerns for the design of medical devices and processes

**Medical Devices - Materials for Human Contact (Design Guide)** Iom Communications, Tuba Yamac, 1998

*Medical Device Register* ,2005 Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration and permitted to do business in the U S with addresses and telephone numbers Organized by FDA medical device name in alphabetical order Keyword index to FDA established standard names of medical devices

**Medical Device Safety** G.R Higson, 2001-10-29 Medical Device Safety The Regulation of Medical Devices for Public Health and Safety examines the prospects for achieving global harmonization in medical device regulation and describes a possible future global system Unresolved difficulties are discussed while solutions are proposed An essential book for all those involved in health physics en

**Essential Standards for Biomedical Equipment Safety and Performance** Association for the Advancement of Medical Instrumentation, 1988

*International Practice of Anaesthesia* Cedric Prys-Roberts, Burnell R. Brown, 1996

Techniques and Principles for the Operating Room Matthew Porteous, Susanne Bäuerle, 2010-06-16 Lavishly illustrated succinct coverage of the latest advances in operative fracture care Reflecting the recent dramatic advances in orthopedic trauma care and orthopedic implants this highly practical surgical

guide provides step by step descriptions of new state of the art techniques as well as in depth information on classic time tested methods Packed with hundreds of the high quality full color illustrations for which AO books are known the expert authors of this must have text discuss operating room principles for different aspects of OR management for ORP orthotic rehabilitation products and AO principles of fracture management and give advice on how to perform common procedures with an emphasis on the use of surgical instruments Features Comprehensive discussion of relative stability biological fixation minimally invasive techniques the correct use of locking head screws and the locking compression plate and more Concise chapters designed to aid ORP and junior residents as they assist during surgery Full color illustrations complement thorough descriptions of each step of the procedures AO Techniques and Principles for the Operating Room is an invaluable tool for operating room staff and all residents starting their careers in orthopedic trauma care *Basic Outlines on Medical Device Law and Regulation* Food and Drug Law Institute Staff,1996 **Encyclopedia of Medical Devices and Instrumentation** John G. Webster,1988-03-24 This objective referenced collection of over 300 articles will cover every aspect of medical devices and instrumentation in four volumes totalling about 3 000 pages The Encyclopedia will define the discipline by bringing together the core of knowledge from all the fields encompassed by the application of engineering physics and computers to problems in medicine Some of the many areas covered will include anaesthesiology burns cardiology clinical chemistry and engineering critical care medicine dermatology dentistry endocrinology genetics gynecology microbiology oncology pharmacology psychiatry radiology surgery and urology Cross references and index included ASQC ... Annual Quality Congress Proceedings ,1997 Medical Device Regulations Michael Cheng,World Health Organization,2003-09-16 The term medical devices covers a wide range of equipment essential for patient care at every level of the health service whether at the bedside at a health clinic or in a large specialised hospital Yet many countries lack access to high quality devices particularly in developing countries where health technology assessments are rare and there is a lack of regulatory controls to prevent the use of substandard devices This publication provides a guidance framework for countries wishing to create or modify their own regulatory systems for medical devices based on best practice experience in other countries Issues highlighted include the need for harmonised regulations and the adoption where appropriate of device approvals of advanced regulatory systems to avoid an unnecessary drain on scarce resources These approaches allow emphasis to be placed on locally assessed needs including vendor and device registration training and surveillance and information exchange systems *A Returnable Container System for Medical Device Components* Christine S. Block,1999 **Managing Service Quality** Graham Clark,1990 The Business of Medicine Gary L. Gitnick,Fred Rothenberg,Judy L. Weiner,1991 **Standards Catalogue** ,1998

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